



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
P0040162	MES002-VC	1	1	Net 30	M1018R1.375	M1018R1.375 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft					12 7/4/2018	12		S088717	Stock	6/28/2018	\$ 9.75 / ft	5		\$117.00	Metaux Solutions
		2	2		MT-4140-B-0.625X3.000	4140 Steel Bar 0.625" x 3.000" : AISI 4140 STEEL BAR PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MINIMUM ROCKWELL C = 28 RC MAXIMUM ROCKWELL C = 32 RC receive ft				4		4		S088718	Stock	6/28/2018	\$ 26.25 / ft	5		\$105.00	Metaux Solutions
		3	3		MT-4140-S-1.500X3.000	4140 Steel Bar 1.500 X 3.000 : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC receive ft				2		2		S088719	Stock	6/28/2018	\$ 35.40 / ft	5		\$70.80	Metaux Solutions
		4	4		MT-O1-R1.250	Tool Steel Round Bar 1.250 dia.					6	6		S088720	Stock	6/28/2018	\$ 11.38 / ft	5		\$68.25	Metaux Solutions

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		5			M303R0.625	303 Round Bar 0.625" MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft				12		12		S088721	Stock	6/28/2018	\$ 4.80 / ft	5		\$57.60	Metaux Solutions
		6			M303R2.250	M303R2.250 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft						12		S088722	Stock	6/28/2018	\$ 73.20 / ft	5		\$878.40	Metaux Solutions
Total:										48		48								\$986.69	

Plex 7/3/2018 10:09 AM dart.Tollis.Andrew

Shipping Order

20/06/2018

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel.: 450 641-3330

Order : 136007
Reference : 40162
Bid : 27774
Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
CR138	CRS ROU 1.375 DIA 1018 1 x 12' *****	12	12	0
	HT 20570340 AK			
MP5841H	4140 HTSR TFA PLATE .625" P.M. 1 x 3" x 48"	28	28	0
	HT;pm 72973 M			
MP11241H	4140 HTSR PLATE 1.5" THICK 1 x 3" x 24"	33	33	0
	HT;pm 54823 M			
TR11401	O-1 TFA TO FIN 1.250 RD 1 x 72"	26	26	0
	HT 9917061255b 48-2			
SR583	303 ROU .625 DIA 1 X 12' R/L	12	12	0
	HT 47715 M			
SR2143	303 ROU 2.250" DIA 1 X 12' R/L *****	12	12	0
	HT 7431 AK			

*** Continued on Next Page ***

Shipping Order

20/06/2018

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 **Tel. : 450 641-3330**

Order : 136007
Reference : 40162
Bid : 27774
Ship : PICK UP / PICK UP

Customer : 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Qty. Delivered</i>	<i>B/O Qty</i>
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	SHIP JOURNEY COLLECT JP			
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Page : 2

Shipping : _____
Package No : _____

Ref. : _____

Merchandise Received: _____



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

PO040162

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO040162

PO Date: 6/11/18

Due Date: 6/21/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED
JUN 11 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: bid 27774

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M1018R1.375		M1018R1.375 : MATERIAL: AISI 1018-1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108 receive ft	Firmed	6/21/18	12 ft	12 ft	0 ft	\$9.75/ft	\$117.00
2	MT-4140-B-0.625X3.000		4140 Steel Bar 0.625" x 3.000" : AISI 4140 STEEL BAR PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MINIMUM ROCKWELL C = 28 RC MAXIMUM ROCKWELL C = 32 RC receive ft	Firmed	6/21/18	4 ft	4 ft	0 ft	\$26.25/ft	\$105.00
3	Mt-4140-S-1.500X3.000		4140 Steel Bar 1.500 X 3.000 : AISI 4140N STEEL SHEET OR PLATE AS PER ASTM A829 OR AMS 6395 MIN: ROCKWELL C = 28 RC MAX: ROCKWELL C = 32 RC receive ft	Firmed	6/21/18	2 ft	2 ft	0 ft	\$35.40/ft	\$70.80
4	MT-O1-R1.125		Tool Steel Round Bar Ø1.125 MATERIAL: AISI 01 TOOL STEEL ROUND BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681	Firmed	6/21/18	6 ft	6 ft	0 ft	\$13.48333/ft	\$80.90
5	M303R0.625		303 Round Bar 0.625" : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	6/21/18	12 ft	12 ft	0 ft	\$4.80/ft	\$57.60

Plex 6/11/18 12:55 PM dart.lavoie.chanta

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6	M303R2.250		M303R2.250 : MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	6/21/18	12 ft	0 ft 12 ft	12 ft	\$73.20/ft	\$878.40
Grand Total:									\$1,309.70	
Order Notes <i>rec'd At 18/06/28</i>										
<p>Procurement Quality Clauses</p> <p>A005 right of entry</p> <p>A012 chemical and physical test report</p> <p>A016 personnel qualification</p> <p>A017 raw material identification (as applicable)</p> <p>A026 certification of material conformance</p> <p>A041 quality management system</p> <p>A042 dart notification by supplier</p> <p>A043 retention of quality documents</p> <p>A048 counterfeit parts avoidance, detection, mitigation and disposition program</p> <p>A049 supplier awareness</p> <p>Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.</p>										

Plex 6/11/18 12:55 PM dart.lavoie.chantal

Bid

05/06/2018

27774

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 *Tel. : 450 641-3330*

Sales Rep. : JEROME PRIMEAU
Expiration Date : 03/09/2018

Customer : 6323336

Ship To :

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel. : 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Price</i>	<i>Total</i>	<i>Tx</i>
SR384	304 ROU .375 DIA 1 X 12' R/L	12	1.90	22.80	A
AET1316	ALU TUB 1.000" X .188" 6061-T6 1 X 24'	24	25.00	600.00	A
SR123	303 ROU .500 DIA 6 X 12' R/L	72	3.05	219.60	A
SR583	303 ROU .625 DIA 1 X 12' R/L	12	4.80	57.60	A
SR343	303 ROU .750 DIA 6 X 12' R/L	72	6.85	493.20	A
SR2143	303 ROU 2.250" DIA 1 X 12' R/L	12	73.20	878.40	A

5/7 DAYS

			<i>Subtotal</i>	10 968.75
A) Regist :			HST :	1 425.94
			<i>Total :</i>	12 394.69

3938

SMIL
7-03

Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RBIR7028-1
Job Sheet 178595



Part No: RBIR7028-1

Job Qty: 6 ea

Part Name: Receiver



Part Weight: 0 lbs

Status: At Planning

Priority: Medium

Job Created: 6/4/18

Job Tracking No:

Due Date: 6/18/18

Created By: Logan David

Type: SOLD

Description:

Note: DWG RBIR7### Rev. 0 IPP Rev. A 18.06.04 new issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	6 Ea		6/18/18	0.00	0.00	Start Up Machining-3		
110	Mori Seiki	6 pcs		6/18/18	0.00	3.00	MORI SL-154		
120	QC	6 pcs		6/18/18	0.00	0.00	QC2 Machining-4		
150	Lathe Conv	6 pcs		6/18/18	0.00	1.20	Lathe Conv-1		
160	QC	6 pcs		6/18/18	0.00	0.00	QC2 Machining-5		
170	QC	6 pcs		6/18/18	0.00	0.00	QC8 Machining-4		
180	Outsource	6 pcs		6/18/18	0.00	0.00	Outsource12		
190	Packaging	6 pcs		6/18/18	0.00	0.00	Packaging2		
200	QC	6 pcs		6/18/18	0.00	0.00	QC6		
210	Packaging	6 pcs		6/18/18	0.00	0.00	Packaging3-1		
220	QC21-SA	6 Ea		6/18/18	0.00	0.00	QC21		

Part Op 110 - 1-Machine as per folio FC FOLIO REV: DWG REV: 2-Deburr
Descriptions: 150 - Machine as per DWG. Face and chamfer.

170 - Engrave T/N and/or P/N number using MARKTRONIC engraver as per DWG.

180 - Issue P/O to GROUPE ALTECH; PO -Black oxide finish, MIL-C-13924C Class 1 -Apply thin layer of oil/CPC per MIL-PRF-16173 Grade 3 Class 1 or MIL-c-81309 Type III Or MILL-C23411A or MIL-PRF-81309 and wipe off excess. -Material type; 1018 -Certificate of Conformity is required

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
M1018R1.375	M1018R1.375	.8700 ft (.145 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	M1018R1.375	1	0	0

Part Specifications

Specifications could not be found.

OK

Plex 6/4/18 11:10 AM dart.logan.david

6467
SHIP
8-13



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

RBT18700-101-F01-2
Job Sheet 178287



Part No: RBT18700-101-F01-2

Job Qty: 12 ea

Part Name: Mounting Bracket



Part Weight: 0 lbs

Status: At Planning

Priority: Medium

Job Created: 5/29/18

Job Tracking No:

Due Date: 7/30/18

Created By: Logan David

Type: SOLD

Description:

Note: DWG RBT18700-101-F01 REV A IPP REV A 18.05.29 NEW ISSUE FK VERIFY DP

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	12 Ea	7/30/18	7/30/18	0.00	0.00	Start Up Waterjet		
100	Mori Seiki	12 pcs	7/30/18	7/30/18	0.00	6.00	MORI NV5000-2		
110	QC	12 pcs	7/30/18	7/30/18	0.00	0.00	QC2 Machining-4		
120	QC	12 pcs	7/30/18	7/30/18	0.00	0.00	QC8 Machining-4		
130	Packaging	12 pcs	7/30/18	7/30/18	0.00	0.00	Packaging3-1		
140	QC21-SA	12 Ea	7/30/18	7/30/18	0.00	0.00	QC21		

Part Op 100 - 1-Machine as per folio FC _____ FOLIO REV: _____ DWG REV: _____ Engrave as per DWG
Descriptions: 2-Deburr

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
MT-4140-B-0.625X3.000	4140 Steel Bar 0.625" x 3.000"	3.2040 ft (.267 ea)	90-Start up Operation	

Job Allocations




Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	MT-4140-B-0.625X3.000	3	4	0

Part Specifications

Specifications could not be found.

Plex 5/29/18 1:55 PM dart.logan.david

6467
SHIP
8-13

	Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200	RBT18700-101-F01-3 Job Sheet 178289 					
Part No: RBT18700-101-F01-3 Job Qty: 6 ea Part Name: Loading Bracket 							
<div style="display: flex; justify-content: space-between;"> <div> Part Weight: 0 lbs Job Created: 5/29/18 Due Date: 7/30/18 Type: SOLD Note: DWG RBT18700-101-F01 REV A IPP REV A 18.05.29 NEW ISSUE FK VERIFY DP Ship Via: </div> <div> Status: At Planning Job Tracking No: Created By: Logan David Description: </div> <div> Priority: Medium </div> </div>							
Bill of Materials							
Job Routing							
Op No	Operation	Qty	Start Date	Due Date	Standard Setup Run hrs Hrs	Workcenter/Supplier Workcenter / Supplier Lead Time	Sign-off
100	Start up Operation	6 Ea	7/30/18	7/30/18	0.00 0.00	Start Up Waterjet2	
110	Waterjet	6 pcs	7/30/18	7/30/18	0.00 0.60	Waterjet 2 OMAX	
120	QC	6 pcs	7/30/18	7/30/18	0.00 0.00	QC2 Waterjet-2	
130	QC	6 pcs	7/30/18	7/30/18	0.00 0.00	QC8-6	
140	Packaging	6 pcs	7/30/18	7/30/18	0.00 0.00	Packaging3	
150	QC21-SA	6 Ea	7/30/18	7/30/18	0.00 0.00	QC21	
Part Op 100 - Descriptions: 110 - 1-Cut as per Dwg Dwg Rev: _____ Prog Rev: _____ 2-Deburr if necessary							
Job BOM							
Part / Item	Component Name	Quantity	Operation	Container			
Mt-4140-S-1.500X3.000	4140 Steel Bar 1.500 X 3.000	.8280 ft (.138 ea)	100-Start up Operation				
Job Allocations							
Operation	Component Part	Required	Inventory	Allocated			
100-Start up Operation	Mt-4140-S-1.500X3.000	1	1	0			
Part Specifications							
Specifications could not be found.							

Plex 5/29/18 1:56 PM dart.logan.david

OK

Vendor
LAUREL STEEL DIV. OF HARRIS STEEL

Heat Number
20570340



Mill Certification

5400 Harvester Road
Burlington, ON, L7R 3Y8
(805) 681-6811
Fax: (805) 634-7886

Sold To:

Ship To:

Customer P.O.	MON-57847	Sales Order	S840864
Product Group	CFB	Customer #/Ship-to	SALI2 / 99
Grade	1018	Part #	31376R020
Size	1 3/8"	Heat #	20570340
Product	R	Bill of Lading #	BOL143741
Description	CFB 1018 R 1 3/8" 20'	Load #	1890529005
Issue Date	5/28/2018	Customer Part #	

CHEMICAL PROPERTIES

C	Mn	P	S	Pb	Te	B	Si	Cu	Ni	Cr	Mo	N	Sn	V	B	Al	As	Ca	O	Nb	Ti
0.18	0.86	0.011	0.025	-	-	-	0.19	0.09	0.03	0.09	0.02	0.007	0.005	0.001	0.0001	0.001	-	-	-	0.001	0.001

Melting Mill: Charter Steel IL, USA NAFTA Origin: US Cold Drawn in Canada

Hotroll: 71437R026 Reduction Ratio: 30:1

Specification Comments:

This material is mercury free.

BUNDLE INFORMATION

Serial Number	Quantity	Product Notes
7610126052718049	2019	NOT NDT TESTED, 20 bars (estimated)

Total Quantity Shipped for Heat # 20570340 (LBS): 2,019 Total number of bundles: 1

*Product Notes:

MEETS ASTM A108-13: Meets ASTM A108-13 specification including non-destructive testing levels (S7)
NDT TESTED: Meets ASTM A108-13 except material was non-destructive tested to a value other than ASTM A108-13 (S7) as described above
NOT NDT TESTED: Meets ASTM A108-13 except material was not non-destructive tested (S7).

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
SPECIFICATION: MIL-S-7097 OR ASTM A108
PART NUMBER: M1018-R[D DDD] WHERE D DDD = DIAMETER IN INCHES
DIA.
EG. 7/8" ROUND BAR = M1018-R0.875
TOLERANCES: PER ASTM A108 AS FOLLOWS:
SIZE TOLERANCE
UP TO 1.5" INCL. +0.000/-0.002
OVER 1.5" TO 2.5" INCL. +0.000/-0.003
OVER 2.5" TO 4.0" INCL. +0.000/-0.004
OVER 4.0" TO 6.0" INCL. +0.000/-0.005
OVER 6.0" TO 8.0" INCL. +0.000/-0.006

RELEASED
2012-09-21
MP

B	REFORMAT	ADD ASTM A108	ADD TOLERANCES	CP	12.09.05
A	NEW ISSUE			DS	01.06.12
REV				BY	DATE
DESIGN					
DRAWN					
CHECKED					
MFG. APPR.					
APPROVED					
DE APPR.					
DATE					12.09.05

DART AEROSPACE LTD	
HAWKESBURY, ONTARIO, CANADA	
DRAWING NO	REV B
M1018-R	
TITLE	SHEET 1 OF 1
1018-1025 ROUND BAR	SCALE
	NTS
COPYRIGHT © 2005 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M1018R1.375
 DATE: 18/06/26

PO / BATCH NO.: P0040162 5088717

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.375"
 THICKNESS RECEIVED: 1.375"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	ASTM A108
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	HT: 20570340
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u> DAS 9 9-89 DATE: <u>18/06/26</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

14 juin 2018

Product Description	Shipped Pcs	Shipped Lbs	Back Ordred	PO LINE
MSP06250	1.00	905.00	0.00	
5/8 X 33 5/8" X 146"		PLATE 4140/42 PREHARD		
ASTM A-829				
DFARS Compliant				
PLATE#: 416354A	PM HEAT#: 72973		BHN 276.00	
Country of Origin SLOVENIA				
C - 0.4300 Mn - 0.7710 P - 0.0100 S - 0.0010 Si - 0.2040 Ni - 0.1500				
Cr - 1.0100 Mo - 0.1500 Cu - 0.2500 V - 0.0300				

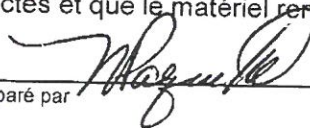
ITEM 2: 1 X 3" X 48"

COMMANDE : 136007

REF : 40162

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par



SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A829 / AMS 6395

PART NUMBER: MT-4140-S-(T.TTT) x (W.WWW)
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

DART AEROSPACE Headquarters: Ontario, Canada	
TITLE: AISI 4140 / 4142 STEEL SHEET OR PLATE	
PART NO: MT-4140-S	REV: A
TOOL NO: -	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AT TEN TOLERANCES	
DESIGNED BY: VN 27/3/2018	INTIALS AND DATE
CHECKED BY: VN 02/13/2018	SCALE: 1:1
APPROVED BY: ML 02/13/2018	DATE: 02/13/2018
FRACTIONS: $\frac{3}{16}$ ANGLES: $\pm .01$ SURFACE: $\pm .01$ ROUGHNESS: $\pm .01$	
COPYRIGHT © 2018 BY DART AEROSPACE LTD.	
THIS DRAWING IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN.	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT2140-B-2625x3.000
 DATE: 18/06/26

PO / BATCH NO.: P0040162/588718

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 4'
 QUANTITY INSPECTED: 4'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625"
 THICKNESS RECEIVED: 0.625"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y (N)	
CORRECT FINISH	(Y) N	
CORROSION	Y (N)	
CORRECT GRAIN DIRECTION	(Y) N	
CORRECT MATERIAL PER M-DRAWING	(Y) N	ASTM A829
CORRECT THICKNESS	(Y) N	
PHOTO REQUIRED	Y (N)	
CORRECT REF # TO LINK CERT	(Y) N	HT: 72973
CORRECT MATERIAL IDENTIFICATION	(Y) N	
CORRECT M# ON THE MATERIAL	(Y) N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y (N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u><i>AS</i></u> DAS 9 389 DATE: <u>18/06/26</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

10 juillet 2018

Particularités / Particularities: **Shimadzu**

MST15000

2,172 Pounds

Plate 1-1/2 4140/42 Prehard

34.37500 x 146.12500

ASTM A-829

DFARS Compliant

Country of Origin: SLOVENIA

Lot: 426317A

PM Heat: 94823

BHN: 300

C: 0.4000

Mn: 0.7800

P: 0.0080

S: 0.0005

Si: 0.2340

Cr: 0.9800

Mo: 0.1500

Cu: 0.2020

V: 0.0330

Ni: 0.1000

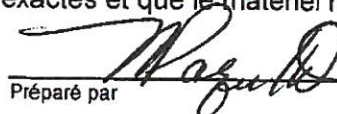
ITEM 3: 1 X 3" X 24"

COMMANDE : 136007

REF : 40162

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par



JEROME

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

14 juin 2018

Part Number / Description	Shipped Qty
MST15000	2,172 Pounds
34.37500 x 146.12500 ASTMA-829 DFARS Compliant Country of Origin: SLOVENIA Lot: 426317A	Plate 1-1/2 MISSING INSO W140 (R28-32)
	* MS WILL EMAIL CHANAL A REVISED CERT JULY 10TH.
	PM Heat: 94823
	BHN: 300
C: 0.4000	Mn: 0.7800
Cr: 0.9800	Mo: 0.1500
P: 0.0080	S: 0.0005
Cu: 0.2020	V: 0.0330
	Si: 0.2340
	Ni: 0.1000

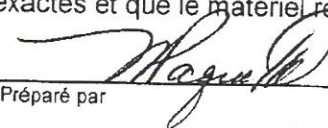
ITEM 3: 1 X 3" X 24"

COMMANDE : 136007

REF : 40162

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par



5831

SPECIFICATION CONTROL DRAWING


PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
 MINIMUM ROCKWELL C = 28 Rc
 MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A829, AMS 6395

PART NUMBER: MT-4140-S-IT.TTTT x (W.WWW)
 WHERE "T.TTT" = THICKNESS IN INCHES
 WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
 EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

 DART AEROSPACE		TITLE AISI 4140 / 4142 STEEL SHEET OR PLATE	
		PART NO. MT-4140-S	
TOOL NO. -		REV. A	
UNLESS OTHERWISE SPECIFIED: DIMENSIONS PER ASME Y14.5M-2018 DIMENSIONS ARE IN INCHES (ROUNDED)			
DESIGNED BY: VM 7/13/2018	INITIALS AND DATE VM 7/13/2018	TOLERANCES: FRACTIONS ± 1/8 DECIMALS ± 0.005 ANGLES ± 0.1° SURF. FINISH: XX ± 0.1 X ± 0.1 ROUGHNESS	SCALE: NTS SHEET 1 OF 1
CHECKED BY: VM 02/13/2018	MFG REVIEW BY: ML 02/13/2018	APPROVED BY: ML 02/13/2018	
COPYRIGHT © 2018 BY DART AEROSPACE LTD. THIS DOCUMENT IS UNCLASSIFIED AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-5-1.500x3.000
 DATE: 18/07/12

PO / BATCH NO.: PO 040162 / 5088719

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 2'
 QUANTITY INSPECTED: 2'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	ASTMA-8m
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	MT. 94823
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>AT</u>	<u>PD</u>	SIGNED OFF BY: _____	
DATE: <u>18/07/12</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

21 juin 2018

DESCRIPTION OF MATERIAL

Heat No	Lot	Grade and Size of Material
9917061255B	48 2	01 TFA TO FIN 1.250 RD

MECHANICAL PROPERTIES

Quantity	Yield PSI	Tensile PSI	% Elong In.	% Red Area	Hardness	Impact
154 LBS	0	0	0	0	BHN211	

CHEMICAL PROPERTIES

C	MN	P	S	SI	NI	CR	V	W	MO	CU	CO	AL
0.940	1.060	0.021	0.002	0.300		0.560	0.100	0.540				
N	PB	SN										

NOTES

ASTM A681-08
MELTING PROCESS EAF+LF+VOD
ULTRASONIC TEST OK ACCORDING TO SEP 1921, (DEC.84) E/e
MATERIAL FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED

Country of Origin: China


ITEM 4: 1 X 72"

COMMANDE : 136007

REF : 40162

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par



SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI O1 TOOL STEEL ROUND BAR

SPECIFICATION:

DIN 1.2510 or B.S. BO 1 or
SAE J437 or SAE J438
or UNS T31501 or ASTM A681

PART NUMBER:

MT-O1-R [D.DDD]
WHERE "D.DDD" = DIAMETER IN INCHES
EG. 5/8" ROUND BAR = MT-O1-R0.625

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.08.09	VM	VM

DART AEROSPACE		Head Office: Chelms, Canada	
AISI O1 TOOL STEEL ROUND BAR			
DATE: 08/31/2017		SCALE: N/A LBS	
DESIGN BY: VM 08/31/2017		CHECKED BY: VM 08/31/2017	
DRAWN BY: VM 08/31/2017		CHECKED BY: VM 08/31/2017	
MFG. APPR: PO 08/31/2017		CHECKED BY: VM 08/31/2017	
QA APPR: PO 08/31/2017		CHECKED BY: VM 08/31/2017	
APPROVED: VM 08/31/2017		CHECKED BY: VM 08/31/2017	
DATE: 08/31/2017		SCALE: N/A LBS	
COPYRIGHT © 2017 BY DART AEROSPACE LTD.			
This drawing is the property of DART AEROSPACE LTD. and is not to be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without prior written permission from DART AEROSPACE LTD.			

EN 17-149

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-01-R1.250
 DATE: 18/07/06

PO / BATCH NO.: P0040162/5088720

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 6'
 QUANTITY INSPECTED: 6'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250"
 THICKNESS RECEIVED: 1.250"
 SHEET SIZE ORDERED: -
 SHEET SIZE RECEIVED: -

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N	ASTM A681
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	MT: 9917061255B-48-2
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT PD</u> DATE: <u>18/07/06</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

VIRAJ PROFILES LIMITED



Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist.- THANE, MAHARASHTRA -401 506, INDIA,
e-mail- vickp@viraj.com

TEST CERTIFICATE

CUSTOMER
FIDELITY PAC METALS LTD.
855 Steeles Ave E Milton, ON L9T 5H3
CANADA

ORDER NO
P006028

PACKING LIST NO
64/75012215/14

INSPECTION NO
100009262788

DATE
20.11.2017

GRADE
T-303

HEAT No
47715

BUNDLE NO :
1100799336, 1100799335, 1100799334,

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN POLISHED - 2H

SIZE	SHAPE	TOLERANCE	LENGTH	PIECES	WEIGHT
3/8"	ROUND	ASTM A484	12' - 14'	247	3,133.000 LB

CHEMICAL ANALYSIS

%C	%Mn	%Si	%S	%P	%Cr	%Ni	%Cu	%Mo	%Co	%N2
0.0450	1.970	0.300	0.2880	0.0340	17.360	8.040	0.490	0.290	0.150	0.03100

TEST RESULTS

0.2% yield strength ksi	Tensile Strength ksi	Elongation %	Reduction Of Area %	Hardness HBN	Grain Size NOS
91.0	106.0	39.0	36.0	216.0	7.0

SPECIFICATION:

MATERIAL CONFORMS TO DIN 10088-3-2005 COND-A & ASTM A302/A302M-12a1, ASTM A 308-03, ASTM A404-16, AMS 5640U TYPE I, EXCEPT MARKING, QQ8-764BA3 COND A, EXCEPT MARKING, UNS-S-30300, ASTM A314-3008, ASTM A332/A332M-15a, DEF CLASS I, ASME SA 330 DEF CL1, MIL-S-8832 B GRADE, AMS 303 & WMR 14303.
CERTIFIED AS PER EN 10004-3.1

REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICROFREE FROM CONTINUOUS CARBIDES NETWORK ON GRAIN BOUNDARIES, MACRO-GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1/2 HRS, WATER QUENCHED, MELT SOURCE AOD. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION. COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

WORKS DIRECTOR
K R K MURTHY

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:
PART NUMBER:

ASTM A582
M303R(D.DDD)
DIA.

WHERE "D DDD" = DIAMETER IN INCHES
EG. 0.75" ROUND BAR = M303R0.750

RELEASED
R 2010-02-02
MP

B	REQUIREMENT Dwg. ADD SPECS (ZN 08-1).	CP	10.01.05
A	REF PAR 08-02A	DS	01.12.20
REV	NEW ISSUE	BY	DATE
DESIGN	DART AEROSPACE LTD		
DRAWN	HAWKESBURY, ONTARIO, CANADA		
CHECKED	DRAWING NO.	REV. B	
MFG. APPR.	M303R	SHEET 1 OF 1	
APPROVED	TITLE	SCALE	
DE APPR.	303 ROUND BAR	NTS	
DATE	10.01.05	COPYRIGHT © 2001 BY DART AEROSPACE LTD	

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M3030.625
DATE: 18/06/26

PO / BATCH NO.: P0040162/5088721

MATERIAL CERT REC'D: Kes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625"
THICKNESS RECEIVED: 0.625"
SHEET SIZE ORDERED: —
SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>N</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>N</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	ASTM A582
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>N</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	HF: 47715
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>N</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>N</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: AI ^{DAS}
DATE: 18/06/26 ⁹⁻⁸⁹

SIGNED OFF BY: _____

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
19-JUN-2018

44926-J
PART NUMBER/NUMÉRO DE PIÈCE
508850

Invoice Number
T380997

SOLD TO: METAUX SOLUTIONS INC.	SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST	2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7	LONGUEUIL QC J4N 1

Description: 303 CF ANN BAR ASTM A582
2-1/4 RD X 12' R/L
HEAT: 743L ITEM: 508850

Line Total: 164 LB

Specifications:
AMS 5640 TYPE 1 V
ASTM A484 16
ASTM A751 14A
ASTM A582 12
EN 10204 3.1
UNS 30300
QQS-764B COND A

CHEMICAL ANALYSIS

C	CU	MN	MO	N	NI	P	S
0.033	0.27	1.84	0.282	0.045	8.56	0.031	0.3145
SI	CR						
0.46	17.20						

RCPT: R448638

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	49.0	87.0	42.0	56.0	177

STRAND CAST MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

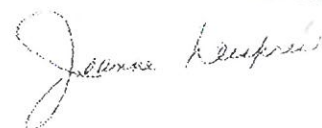
melted & mfg: usa
complies with requirements of dfar 252.225-7009.
~~eu directive 2011/65/eu rohs~~

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
19-JUN-2018

44926-J
PART NUMBER/NUMÉRO DE PIÈCE
508850

Invoice Number
T380997

SOLD TO: METAUX SOLUTIONS INC.
VENDU À:

SHIP TO:
EXPÉDIÉ À:

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 303 CF ANN BAR ASTM A582
2-1/4 RD X 12' R/L

HEAT: 743L

eaf+aod+cc

red ratio: 14.4:1

ITEM: 508850

Line Total: 164 LB

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS ROUND BAR
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION:
PART NUMBER:

ASTM A582
M303R1D.DDD
DIA.

WHERE "D.DDD" = DIAMETER IN INCHES
EG 0.75" ROUND BAR = M303R0.750

RELEASED
R 2010-02-02
NR

B	REFORMAT DWG. ADD SPECS (ZN D8-1). REF PART 08-020A	CP	10 01 05
A	NEW ISSUE	DS	01 12 20
REV	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG APPR.			
APPROVED			
DE APPR.			
DATE	10.01.05		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B
DRAWING NO.	M303R	SHEET 1 OF 1
TITLE	303 ROUND BAR	SCALE
		NTS
COPYRIGHT © 2001 BY DART AEROSPACE LTD		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303R2.250
 DATE: 18/06/26

PO / BATCH NO.: P0040162/5088722

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 2.250"
 THICKNESS RECEIVED: 2.250"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	ASTM A582
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	HT: 743L
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input type="radio"/> N <input checked="" type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input type="radio"/> N <input checked="" type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AS</u> DAS S DATE: <u>18/04/26</u> 9-89	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in